

**AMENDMENTS TO THE CLAIMS**

The listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1. (Cancelled)

Claim 2. (Cancelled)

Claim 3. (Cancelled)

Claim 4. (Cancelled)

Claim 5. (Cancelled)

Claim 6. (Previously amended) An optical wave guide comprising a core, wherein said core comprises a polymer and at least one organic compound, wherein the organic compound is selected from the group consisting of benzoquinoline, 1,10-phenanthroline, phenanthridine, and 1,7-phenanthroline.

Claim 7. (Previously amended) An optical wave guide comprising a core, wherein said core comprises a polymer and at least one organic compound, wherein the organic compound is selected from the group consisting of 1,2-benzoxazole and benzofuran.

Claim 8. (Cancelled)

Claim 9. (Cancelled)

Claim 10. (Cancelled)

Claim 11. (Cancelled)

Claim 12. (Previously presented) The optical waveguide of claim 6, wherein the polymer is polymethylmethacrylate or polyester.

Claim 13. (Previously presented) The optical waveguide of claim 7, wherein the polymer is polymethylmethacrylate or polyester.

Claim 14. (Cancelled)

Claim 15. (Cancelled)

Claim 16. (Cancelled)

Claim 17. (Cancelled)

Claim 18. (Previously amended) An optical wave guide comprising a core, wherein said core comprises a polymer and at least one organic compound, wherein the organic compound is selected from the group consisting of benzoquinoline, 1,10-phenanthroline, phenanthridine, 1,7-phenanthroline, 1,2-benzoxazole and benzofuran.

Claim 19. (Previously amended) An optical wave guide comprising a core, wherein said core comprises a polymer and at least one organic compound, wherein the organic compound is selected from the group consisting of benzoquinoline, 1,10-phenanthroline, 1,7-phenanthroline, 1,2-benzoxazole and benzofuran.

Claim 20. (Previously amended) An optical wave guide comprising a core, wherein said core comprises a polymer and at least one organic compound, wherein the organic compound is selected from the group consisting of benzoquinoline, 1,10-phenanthroline, 1,7-phenanthroline, and 1,2-benzoxazole.

Claim 21. (Cancelled)

Claim 22. (Cancelled)

Claim 23. (New) The optical waveguide of claim 18, wherein the polymer is polymethylmethacrylate or polyester.

Claim 24. (New) The optical waveguide of claim 19, wherein the polymer is polymethylmethacrylate or polyester.

Claim 25. (New) The optical waveguide of claim 20, wherein the polymer is polymethylmethacrylate or polyester.